

## **ABSTRACT OF THE INVENTION**

A method separating for small molecules from an aqueous solution is presented. The method can be used selectively separate small molecules from a solution while leaving untargeted molecules dissolved in the solution. The method uses polymer filtration to selectively  
5 remove the small molecules from the aqueous solution. An aqueous solution containing the dissolved small molecule is contacted with a polymer which is capable of forming a complex with the small molecule. The aqueous solution is then subjected to ultrafiltration which creates a concentrated solution of the polymer-small molecule complex. The small molecule may be released from the polymer and the polymer recycled for another round of removal.

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